



**CITY OF LODI  
COUNCIL COMMUNICATION**

**AGENDA TITLE:** Adopt a resolution awarding the purchase of three 15kV 600-amp horizontal sidebreak pole-top switches to the low bidder, Inertia Engineering of Stockton (\$5,799.11) (EUD)

**MEETING DATE:** August 4, 2004

**PREPARED BY:** Electric Utility Director

**RECOMMENDED ACTION:** That the City Council adopt a resolution awarding the purchase of three 15kV 600-amp horizontal sidebreak pole-top switches to the low bidder, Inertia Engineering of Stockton, in the amount of \$5,799.11.

**BACKGROUND INFORMATION:** The Electric Utility Department on July 15 issued a work order to construct necessary line extensions at the White Slough wastewater facility under the Department's "fast-track" program. The work order required 45 different items of overhead hardware, including three horizontal sidebreak pole-top switches (see illustration, Exhibit A). Because of the time constraints, requests for informal bids for the three switches were sent to the two approved suppliers, Western States Electric, Portland, Oregon (representing Cooper Power Systems of Milwaukee, WI), and Inertia Engineering of Stockton. Bidders were asked to respond by July 20.

The following bids were received on July 20, 2004:

Inertia Engineering, Stockton	\$5,799.11
Western States Electric, Portland (Cooper Power)	\$5,850.83

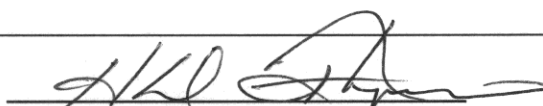
Lodi City Code §3.20.070 allows for dispensation of the formal bid procedure when the City Council determines that an alternative method of purchase is in the City's best interest. Because the project's "fast-track" scheduling required expedited delivery of construction materials, and only two suppliers have been qualified by the department to provide these switches, informal bids were requested from the two approved suppliers. Thus, it is staff's recommendation that the City Council award the purchase to the lower bidder, Inertia Engineering, under provisions of LCC §3.20.070.

**FUNDING:** Electric Utility Dept 2003-2005 Financial Plan and Budget, Page E-41, Business Unit 161651 (Line Extensions)

  
James R Krueger, Finance Director

  
Alan N Vallow, Electric Utility Director

Attachment: Illustration  
Prepared by Joel Harris, Purchasing Officer  
cc: Manager, EUD Engineering and Operations

**APPROVED:**   
H. Dixon Flynn, City Manager

**INERTIA™**  
ENGINEERING & MACHINE WORKS, INC.

# LineBOSS™

15 kV-35 kV Sidebreak Type,  
Unitized GOAB Switch

## GENERAL

The LineBOSS™ Sidebreak switch is the most robust, yet elegant sidebreak switch in the market today. Every LineBOSS™ component brings meaningful operator benefits for years to come. Features such as 1/4 inch steel phase base, stainless steel to brass bearings, silver plated copper reverse loop contacts and busbar blades mean efficient and smooth operation over a very long life, even in hostile environments where dust, humidity, corrosives and other industrial or natural contaminants play havoc with most. You'll be amazed with how much switch you can buy for the money.

*Inertia- moving power with passion and innovation!*

## SPECIFICATIONS

### Switch Ratings:

Continuous Current Class: 600, 900, 1200 Amps

Fault Close: 20 kA rms-asym: 5 X

30 kA rms-asym: 2 X

27 kV (phase - phase)

Momentary current to: 70 kA rms, 1 second

44 kA rms, 3 seconds

Ice breaking: 3/4" (manual operation)

Mechanical: 25,000 cycles (open/close)

Tested in accordance with IEEE Std. C37.34-1994

ANSI/IEEE Std. 37.71-1984 and IEC Std. 265-1, 1983.

USDA Rural Utilities Service (RUS); Fully Accepted

### Loadbreak Devices:

Arc Horns

Quickbreak Whip Attachments

Arc Chute Load Break

AmpRupter Load Break

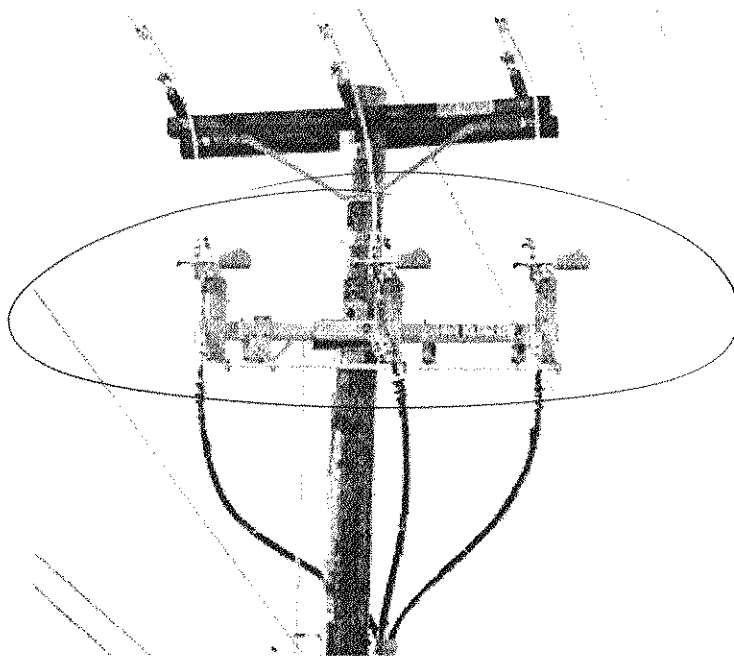
AmpVac Load Break

\*See data sheet "AIR-BREAK DISCONNECT SWITCH ATTACHMENT SELECTION INFORMATION" for loadbreak descriptions and specifications (page 2.13 - 2.14)

ACCC Designation DO6

Loadability factor 1.22 at 25 Deg. C.

(not applicable to loadbreak devices)



### Crossarm Ratings:

All materials: for equal loading on each side of the switch, the working load is 12,000 lbs/phase.

Crossarm Material	Dead end Loading
Galvanized Steel (standard duty)	2000 lbs.
Galvanized Steel (heavy duty)	6000 lbs.
Aluminum (standard duty)	1500 lbs.
Aluminum (heavy duty)	3000 lbs.
Fiberglass (standard duty)	1000 lbs.
Fiberglass (heavy duty)	2500 lbs.

### STANDARD FEATURES

- Resilient, higher BIL silicone rubber insulators
- Reverse loop silver plated copper jaw contacts
- Maintenance free stainless steel/bronze bearings
- Unitized construction: aluminum, steel or fiberglass
- Factory adjusted, ready to mount
- Meets all applicable NEMA and ANSI standards
- All ferrous components are hot dip galvanized
- Tinned copper terminal pads

### STANDARD CONFIGURATIONS

- Horizontal (upright)
- Delta (pole top)
- Vertical (phase over phase)
- Riser
- Underarm Horizontal

See opposite side of this page for illustrations and selection.

RESOLUTION NO. 2004-153

A RESOLUTION OF THE LODI CITY COUNCIL AWARDING  
THE BID FOR THE PURCHASE OF THREE 15KV 600-AMP  
HORIZONTAL SIDEBREAK POLE-TOP SWITCHES

WHEREAS, Lodi Municipal Code §3.20.070 authorizes dispensing with bids for purchases of supplies, services, or equipment when it is in the best interest of the City to do so; and

WHEREAS, on July 15, 2004, the Electric Utility Department issued a work order to construct necessary line extensions at the White Slough wastewater facility under the Department's "fast-track" program. The work order required 45 different items of overhead hardware, including three horizontal sidebreak pole-top switches; and

WHEREAS, because the project's "fast-track" scheduling required expedited delivery of construction materials and only two suppliers have been qualified by the department to provide these switches, informal bids were requested from the two approved suppliers. The following bids were received on July 20, 2004:

Inertia Engineering, Stockton	\$5,799.11
Western States Electric, Portland (Cooper Power)	\$5,850.83

WHEREAS, staff recommends that the City Council award the purchase of three 15kV 600-amp horizontal sidebreak pole-top switches to the low bidder, Inertia Engineering, of Stockton, California, in the amount of \$5,799.11.

NOW, THEREFORE, BE IT RESOLVED that the Lodi City Council does hereby award the bid for the purchase of three 15kV 600-amp horizontal sidebreak pole-top switches, to Inertia Engineering, of Stockton, California, in the amount of \$5,799.11.

Dated: August 4, 2004

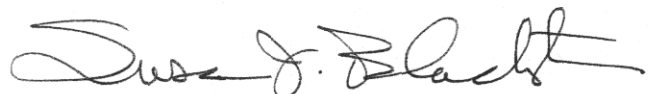
I hereby certify that Resolution No. 2004-153 was passed and adopted by the City Council of the City of Lodi in a regular meeting held August 4, 2004, by the following vote:

AYES: COUNCIL MEMBERS – Beckman, Hitchcock, Howard, Land, and Mayor Hansen

NOES: COUNCIL MEMBERS – None

ABSENT: COUNCIL MEMBERS – None

ABSTAIN: COUNCIL MEMBERS – None



SUSAN J. BLACKSTON  
City Clerk